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 support@biogenex.com

# Material Safety Data Sheet

Doc#: HK111 Rev. B  
 Release Date: 05-Oct-2020

## 1. CHEMICAL IDENTIFICATION/COMPANY

Product Name: Peroxide Block Catalog No.: HK111-5K  
 Manufacturer: BioGenex Laboratories, Inc.  
 48810 Kato Road, Suite 100E & 200E, Fremont, CA 94538, USA  
 Information: Tel: +1 (800) 421-4149 Fax: +1 (510) 824-1490  
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 Chemtrec Assistance: (800) 424-9300 (U.S. only)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Part No.	Description of Component	Formula
HK111-5K	Peroxide Block	Mixture

## 3. HAZARDS IDENTIFICATION

Part No.	Chemical Name	Synonyms	CAS No.	Percent	Einacs#
HK111-5K	Hydrogen peroxide	Hydrogen dioxide	7722-84-1	<10	Unlisted

### EXPOSURE LIMITS

CAS No.	OSHA PEL	ACGIH TLV	NIOSH	OTHER
7722-84-1	TWA 1 ppm, 1.4 mg/m <sup>3</sup>	1 ppm, 1.4 mg/m <sup>3</sup>	TWA 1 ppm, 1.4 mg/m <sup>3</sup>	None

## 4. FIRST AID MEASURES

Get medical aid immediately.

EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do NOT allow victim to rub or keep eyes closed.

SKIN: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

INGESTION: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Call a poison control center.

INHALATION: Move the victim to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively. No specific antidote exists.

## 5. FIRE-FIGHTING MEASURES

FLASH POINT: Noncombustable

FLAMMABLE LIMITS: NDA

FIRE AND EXPLOSION HAZARD: Strong oxidizer. Contact with combustible materials may cause a fire.

FIREFIGHTING MEDIA: Use water only! Do not use carbon dioxide or dry chemical.



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**FIREFIGHTING MEASURES:** Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) with full facepiece operated in positive pressure mode to prevent contact with thermal decomposition products. Use water spray to keep fire-exposed containers cool. Move container from fire area if possible. Do not scatter spilled material with more water than needed for fire control. Dike fire control water for later disposal. Avoid breathing hazardous vapors; keep upwind.

Toxic fumes produced under fire conditions.

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### 6. ACCIDENTAL RELEASE MEASURES

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite and place in closed containers for disposal. Flush spill area with water.

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### 7. HANDLING AND STORAGE

**HANDLING:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks or open flames.

**STORAGE:** Observe all federal, state and local regulations when storing or disposing of this substance.

Keep away from heat and flame. Do not store in direct sunlight. Store refrigerated in a tightly closed container in a cool, well-ventilated area away from incompatible substances.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION:** Provide local exhaust or process enclosure ventilation system to meet all federal, state, and local requirements.

**RESPIRATOR:** None required where adequate ventilation conditions exist.

**EYE/SKIN PROTECTION:** Wear safety goggles and appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged eye/skin contact with this substance.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** NDA

**VAPOR DENSITY(AIR=1):** NDA

**SPECIFIC GRAVITY:** NDA

**APPEARANCE & ODOR:** Clear liquid, odorless

**VAPOR PRESSURE(MM HG):** NDA

**MELTING POINT:** NDA

**SOLUBILITY(H<sub>2</sub>O):** NDA

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### 10. STABILITY AND REACTIVITY

**STABILITY:** Decomposes slowly to release oxygen.

**CONDITIONS TO AVOID:** Light, metals, excess heat, reducing agents, alkaline materials, strong oxidants. Incompatible with: Acetic acid, acetic anhydride, acetone, alcohols + sulfuric acid, ammonia and its carbonates, antimony trisulfide, arsenic trisulfide, brass, bronze, t-butyl alcohol, cellulose, charcoal, chlorine + potassium hydroxide, chlorosulfonic acid, chromium, copper, cupric sulfide, dimethylbenzylcarbinol + sulfuric acid, ethyl alcohol, ferrous sulfide, formic acid + organic matter, gold, hydrazine, hydrogen selenide, iron, ketones + nitric acid, lead, lead dioxide, lead monoxide, lead sulfide, lime water, magnesium, manganese, manganese dioxide, mercuric oxide, mercurous oxide, molybdenum disulfide, nitric acid, organic matter, 1-phenyl-2-methylpropyl

**DECOMPOSITION:** Oxygen, hydrogen gas.

**HAZARDOUS POLYMERIZATION:** None reported.

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### 11. TOXICOLOGICAL INFORMATION

**INHALATION:** May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause ulceration of nasal tissue, insomnia, nervous tremors with numb extremities, chemical pneumonia, shock, unconsciousness, and death.

**EYE CONTACT:** May cause severe eye irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. Vapors may cause eye irritation.

**SKIN CONTACT:** May cause severe skin irritation and possible burns. Exposure can produce pain, swelling, burns, and possible tissue destruction.



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**INGESTION:** May cause perforation of the digestive tract and severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause difficulty in swallowing, stomach distension, possible cerebral swelling and death.  
**CHRONIC:** Prolonged or repeated skin contact may cause dermatitis.  
**TARGET ORGANS:** Central nervous system, respiratory system.  
**ROUTES OF ENTRY:** None indicated  
 The toxicological properties have not been thoroughly investigated.

### Toxicity data

CAS#	RTECS	LD50	CARCINOGENICITY					
			ACGIH	IARC	NIOSH	NTP	OSHA	Other
7722-84-1	MX0899000 MX0900000	NDA	A2	G3	Yes	Yes	Yes	See Note 1

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. Consult the actual entry in RTECS for complete information.

### Note:

1. This product is or contains chemical(s) known to the state of California to cause cancer (California Proposition 65 carcinogen).

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.  
 Environmental Fate: No information available.  
 Physical/Chemical: No information available.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable federal, state, and local environmental regulations.  
 Not listed as a material banned from land disposal according to RCRA.

## 14. TRANSPORT INFORMATION

US DOT: No information available  
 IMO: No information available.  
 IATA: No information available.  
 RID/ADR: No information available.  
 Canadian TDG: No information available.

## 15. REGULATORY INFORMATION

No information available.

## 16. MISCELLANEOUS INFORMATION

No additional information available.

N/A: Not Applicable    NDA: No Data Available

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